

Appl. No. 09/033,222

In the Specification:

Please substitute the following paragraph(s) of the specification for their corresponding pending paragraphs(s) under 37 C.F.R. 1.121(b)(1):

1. Pending paragraph of the specification that starts at **page 1, line 4:**

AI
Cross-reference is made to the following U.S. Patents, each of which is assigned to the same assignee as the present invention and hereby incorporated by reference: U.S. Patent No. 6,039,316, entitled "Multi-Hierarchical Control System For Controlling Object Motion With Smart Matter"; U.S. Patent No. 6,119,052 entitled "Market-Based Control System For Controlling Object Motion With Smart Matter"; and U.S. Patent No. 6,027,112 entitled "Adaptive Multiagent Control System For Controlling Object Motion With Smart Matter".

2. Pending paragraph of the specification that starts at **page 17, line 16:**

AD
The potential field 606 can be specified using either mechanical or electrical forces. For example in the transport assembly, each agent could detect values of global constraint preferences from a wire carrying a range of voltage potentials. Alternatively, each agent could detect regional air pressure settings of the transport assembly. In this alternate embodiment, values of the global constraints are reflected regionally by the pressure difference between low-pressure plenum 214 and high-pressure plenum 216. In another embodiment, global constraints could be conveyed using funding policies of computational markets. More details of computational markets are disclosed in U.S. Patent No. 6,119,052. In yet another embodiment probabilistic and randomized algorithms are used to define local agent behavior, and in which global constraints are conveyed using probability values that are delivered to the collection of agents. In a further embodiment, the global controller delivers the values of the potential field digitally using a broadcast network or a shared memory storing a lookup table.
